

WHAT IS CLAIMED IS:

- 1 1. An EMI suppressing cable, comprising:
  - 2 a core wire bundle, including a plurality of core wires
  - 3 which are respectively covered with insulative covering layers;
  - 4 a ferrite compound-mixed resin layer, covering the core
  - 5 wire bundle; and
  - 6 a sheath layer, covering the ferrite compound-mixed
  - 7 resin layer.
- 1 2. The EMI suppressing cable as set forth in claim 1, wherein
- 2 a shielding layer is interposed between the core wire bundle
- 3 and the ferrite compound-mixed resin layer.
- 1 3. The EMI suppressing cable as set forth in claim 1, wherein
- 2 the ferrite compound-mixed resin layers are formed by an
- 3 extrusion formation.
- 1 4. The EMI suppressing cable as set forth in claim 2, wherein
- 2 the shielding layer is comprised of a flexibility conductive
- 3 material having at least one of a metal-braided wire layer,
- 4 a metal tape layer and a metal foil.
- 1 5. The EMI suppressing cable as set forth in claim 2, wherein
- 2 the ferrite compound-mixed resin layer is a ferrite

3 compound-mixed resin tape in which ferrite powders are evenly  
4 compound within resin; and

5 wherein , the ferrite compound-mixed resin tape covers  
6 the shielding layer.

1 6. The EMI suppressing cable as set forth in claim 5, wherein  
2 the ferrite compound-mixed resin tape is spirally wound on the  
3 shielding layer around an axis direction of the core wire bundle.

1 7. The EMI suppressing cable as set forth in claim 5, wherein  
2 the ferrite compound-mixed resin tape is wound on the shielding  
3 layer in a direction perpendicular to an axis direction of the  
4 core wire bundle.

1 8. A method of producing an EMI suppressing cable,  
2 comprising the steps of:

3 providing a core wire bundle which includes a plurality  
4 of core wires respectively covered with insulative covering  
5 layers;

6 covering the core wire bundle with a shielding layer;

7 covering the shielding layer with a ferrite  
8 compound-mixed resin layer; and

9 covering the ferrite compound-mixed resin layer with  
10 a sheath layer.

1       9.     The method as set forth in claim 8, wherein the ferrite  
2     compound-mixed resin layers are formed by an extrusion formation.

1       10.    The method as set forth in claim 8, wherein the shielding  
2     layer is comprised of a flexibility conductive material having  
3     at least one of a metal-braided wire layer, a metal tape layer  
4     and a metal foil.

1       11.    The method as set forth in claim 8, wherein the ferrite  
2     compound-mixed resin layer is a ferrite compound-mixed resin  
3     tape, and the method further comprising the step of covering  
4     the shielding layer with the ferrite compound-mixed resin tape  
5     formed by adjusting a mixing ratio of ferrite powders in the  
6     resin so that the ferrite powders is evenly compound in the  
7     resin.

1       12.    The method as set forth in claim 11, wherein the ferrite  
2     compound-mixed resin tape is spirally wound on the shielding  
3     layer around an axis direction of the core wire bundle while  
4     adjusting a winding pitch.

1       13.    The method as set forth in claim 11, wherein the ferrite  
2     compound-mixed resin tape is wound on the shielding layer in  
3     a direction perpendicular to an axis direction of the core wire  
4     bundle.